EXHIBIT "A"

Engineering Information

Round Magnet Wire Dimensions

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CU AWG Size	Bare Diameter (in.)			Area (circular mils)	Weight (lb/1000 ft)	Resistance @ 20°C (ohms/1000 ft)			ohms/lb	Maximum Winding Tension (lb)	Minimum Insulation Increase (in.)
	Min.	Nom.	Max.	Nom.	Nom.	Min.Dia.	Nom.Dia.	Max.Dia.	Nom.		
0	0.3217	0.3249	0.3281	105560	319.5	0.1002	0.09824	0.09634	0.0003	1368	
1	0.2864	0.2893	0.2922	83694	253.3	0.1264	0.1239	0.1214	0.00048	1084	
2	0.255	0.2576	0.2602	66357	200.8	0.1594	0.1562	0.1531	0.00077	859.9	
3	0.2271	0.2294	0.2317	52624	159.2	0.201	0.197	0.1931	0.00123	682	
4	0.2023	0.2043	0.2063	41738	126.3	0.2534	0.2484	0.2436	0.00196	540.9	
5	0.1801	0.1819	0.1837	33087	100.1	0.3197	0.3134	0.3073	0.00312	428.8	
6	0.1603	0.162	0.1636	26244	79.43	0.403	0.3951	0.3874	0.00497	340.1	
7	0.1429	0.1443	0.1457	20822	63.02	0.5078	0.498	0.4885	0.0079	269.8	
8	0.1272	0.1285	0.1298	16512	49.98	0.6409	0.628	0.6155	0.01256	214	
8½	0.1201	0.1213	0.1225	14713	44.53	0.719	0.7048	0.6911	0.01582	190.7	
9	0.1133	0.1144	0.1155	13087	39.61	0.8079	0.7924	0.7774	0.02	169.6	
9½	0.1069	0.108	0.109	11664	35.3	0.9075	0.8891	0.8729	0.02518	151.2	
10	0.1009	0.1019	0.1029	10383	31.43	1.018	0.9987	0.9794	0.03177	134.6	
10½	0.0952	0.0962	0.0971	9254	28.01	1.144	1.12	1.099	0.04	119.9	
11	0.0898	0.0907	0.0916	8226	24.9	1.286	1.26	1.236	0.05062	106.6	
11½	0.0847	0.0856	0.0864	7327	22.17	1.445	1.415	1.389	0.06361	95	
12	0.08	0.0808	0.0816	6528	19.76	1.62	1.588	1.557	0.08038	84.6	
12½	0.0755	0.0763	0.077	5821	17.62	1.819	1.781	1.749	0.101	75.4	
13	0.0713	0.07199	0.0727	5184	15.69	2.04	2	1.962	0.1274	67.2	
13½	0.0672	0.0679	0.0686	4610	13.95	2.296	2.249	2.203	0.1611	59.7	
14	0.0635	0.0641	0.0647	4108	12.43	2.572	2.524	2.477	0.2029	53.2	
14½	0.0599	0.0605	0.0611	3660	11.07	2.89	2.833	2.778	0.2557	47.4	0.0016
15	0.0565	0.0571	0.0577	3260	9.869	3.248	3.18	3.115	0.3223	42.3	0.0016
15½	0.0534	0.0539	0.0544	2905	8.793	3.636	3.569	3.504	0.4059	37.6	0.0015
16	0.0503	0.0508	0.0513	2580	7.811	4.099	4.018	3.94	0.5144	33.4	0.0015
16½	0.0475	0.048	0.0484	2304	6.974	4.596	4.501	4.427	0.6454	29.9	0.0014
17	0.0448	0.0453	0.0458	2052	6.211	5.167	5.053	4.944	0.8136	26.6	0.0014
17½	0.0423	0.0427	0.0432	1823	5.518	5.796	5.688	5.557	1.03	23.6	0.0014
18	0.0399	0.0403	0.0407	1624	4.915	6.514	6.385	6.26	1.298	21	0.0013
18½	0.0376	0.038	0.0384	1444	4.37	7.335	7.182	7.033	1.643	18.7	0.0013
19	0.03549	0.0359	0.0363	1288	3.901	8.229	8.046	7.87	2.062	16.7	0.00119
19½	0.0336	0.0339	0.0343	1149	3.478	9.186	9.024	8.815	2.594	14.9	0.00119
20	0.0317	0.032	0.0323	1024	3.099	10.32	10.12	9.94	3.267	13.3	0.00119

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